

Amendment of the Claims under Article 19(1) (Rule 46)

WHAT IS CLAIMED IS:

1. (amended) A valve for a safety tire, equipped with a charging opening for charging gas into an outer gas chamber and an inner gas chamber, which are provided in a tire having a double structure, said valve for a safety tire comprising:

an air-supply passage for an inner gas chamber, which causes the charging opening and the inner gas chamber to communicate with each other;

an air-supply passage for an outer gas chamber, which causes the charging opening and the outer gas chamber to communicate with each other;

a nonreturn valve member for an inner gas chamber, provided in said air-supply passage for an inner gas chamber, said nonreturn valve member for an inner gas chamber allowing gas to flow from the atmospheric side into the gas chamber and making it possible to prevent gas from flowing from the gas chamber into the atmosphere, and also allowing gas to flow from the gas chamber into the atmosphere by carrying out a predetermined operation;

a nonreturn valve member for an outer gas chamber, provided in said air-supply passage for an outer gas chamber, said nonreturn valve member for an outer gas chamber allowing gas to flow from the atmospheric side into the gas chamber and making it possible to prevent gas from flowing from the gas chamber into the atmosphere, and also allowing gas to flow from the gas chamber into the atmosphere by carrying out a predetermined operation; and

an engaging portion that allows a filling adapter with a coupler to be mounted at the charging opening in only a fixed direction, which filling adapter includes a first passage that can supply gas to the inner gas chamber by

communicating with said air-supply passage for an inner gas chamber, and includes a second passage that can supply gas to the outer gas chamber by communicating with said air-supply passage for an outer gas chamber so as to make a pressure difference between the outer gas chamber and the inner gas chamber, the engaging portion allowing the filling adapter to be mounted so that said air-supply passage for an inner gas chamber communicates with the first passage and said air-supply passage for an outer gas chamber communicates with the second passage.

2. The valve for a safety tire according to claim 1, wherein detachment-restraining means for restraining detachment of said nonreturn valve member for an outer gas chamber is provided in said air-supply passage for an outer gas chamber at a position nearer to the charging opening than said nonreturn valve member for an outer gas chamber.

3. (canceled)

4. (amended) A filling adapter with a coupler, which engages with a valve for a safety tire equipped with an air-supply passage for an outer gas chamber for charging gas into an outer gas chamber of a tire having a double structure, and an air-supply passage for an inner gas chamber for charging gas into an inner gas chamber of the tire, so as to charge gas from a gas supply source into the outer gas chamber and into the inner gas chamber via the air-supply passage for an outer gas chamber and the air-supply passage for an inner gas chamber, said filling adapter comprising:

a main body portion engaging with said valve for a safety tire;

a second coupling provided in said main body portion and including a valve core connectable to a pressure source to allow gas from the pressure source to be supplied to the tire;

an air chamber provided in said main body portion and connected to said second coupling;

a first passage provided in said main body portion and causing said air chamber and the air-supply passage for an inner gas chamber to communicate with each other;

a second passage provided in said main body portion and causing said air chamber and the air-supply passage for an outer gas chamber to communicate with each other;

differential pressure setting means provided in said second passage and distributing gas from the gas supply source to said first passage and said second passage so as to generate a pressure difference therebetween; and

a first coupling connected to said second passage and allowing gas in the outer gas chamber to be released to the atmosphere by carrying out a predetermined operation.

5. (amended) A pressure releasing adapter used in a safety tire-rim assembly equipped with a pneumatic tire, an expandable air pocket provided within the pneumatic tire and forming an inner gas chamber, a rim which forms an outer gas chamber between the pneumatic tire and the air pocket when the pneumatic tire and the air pocket are mounted, and the valve for a safety tire according to claim 1, said pressure releasing adapter being used to release gas both in the inner gas chamber and in the outer gas chamber to the atmosphere, and comprising:

a main body portion that can engage with said valve for a safety tire; and
operating means provided in said main body portion and causing gas in the inner gas chamber and gas in the outer gas chamber to be released to the atmosphere so as not to expand said air pocket, by carrying out a predetermined operation with respect to the nonreturn valve member for an inner gas chamber and the nonreturn valve member for an outer gas chamber of said valve for a safety tire when said main body portion is engaged with said valve for a safety tire.

6. (amended) A pressure releasing method for releasing, to the atmosphere, gas in an inner gas chamber and gas in an outer gas chamber of a safety tire-rim assembly equipped with a pneumatic tire, an expandable air pocket disposed within the pneumatic tire and forming the inner gas chamber, a rim that forms the outer gas chamber between the pneumatic tire and the air pocket when the pneumatic tire and the air pocket are mounted, and the valve for a safety tire according to claim 1,

wherein the nonreturn valve member for an inner gas chamber is removed in advance of the nonreturn valve member for an outer gas chamber.

7. (amended) A pressure releasing method for releasing, to the atmosphere, gas in an inner gas chamber and gas in an outer gas chamber of a safety tire-rim assembly equipped with a pneumatic tire, an expandable air pocket disposed within the pneumatic tire and forming the inner gas chamber, a rim that forms the outer gas chamber between the pneumatic tire and the air pocket when the pneumatic tire and the air pocket are mounted, and the valve for a safety tire according to claim 1,

wherein gas in the inner gas chamber and gas in the outer gas chamber are released to the atmosphere by engaging, with said valve for a safety tire, a pressure

releasing adapter including operating means which operates the nonreturn valve member for an inner gas chamber and the nonreturn valve member for an outer gas chamber at the same time or which operates the nonreturn valve member for an inner gas chamber in advance of the nonreturn valve member for an outer gas chamber.

8. The pressure releasing method according to claim 7, wherein said operating means includes a first protruding portion for operating said nonreturn valve member for an inner gas chamber, and a second protruding portion for operating said nonreturn valve member for an outer gas chamber, and said first protruding portion is longer than said second protruding portion.